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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-07-06-11** **Date: 09-01-2022**

Project Name : Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.

Agency : Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Customer's Reference : EE(Project)/Ynk.Zone/WO/173/2020-21

Date of Receipt : 06-01-2022

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 07-01-2022

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-06-11** **Date: 04-02-2022**
Project Name	:	Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.
Agency	:	Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/173/2020-21
Date of Receipt	:	06-01-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	07-01-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-06-11** **Date: 04-02-2022**
Project Name	:	Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.
Agency	:	Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/173/2020-21
Date of Receipt	:	06-01-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	07-01-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-06-11** **Date: 09-01-2022**
Project Name	:	Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.
Agency	:	Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/173/2020-21
Date of Receipt	:	06-01-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-01-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-07-06-11 Date: 09-01-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-06-11** **Date: 08-01-2022**
Project Name	:	Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.
Agency	:	Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer Reference	:	EE(Project)/Ynk.Zone/WO/173/2020-21
Date of Receipt	:	06-01-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-01-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-06-11** **Date: 08-01-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID: CP-5025-07-06-33 Date: 06-01-2022

Project Name: Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Basavanapura Assembly Constituency

Agency: Sri. S.K. Kodavanamthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Contractor's Reference: EE(Project) Yel.Zone/WO/173/2020-21

Date of Receipt: 06-01-2022

Sample Type: Fine Aggregate

Reference to BIS codes: IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 -1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test: 06-01-2022

Total weight taken: 1000 grams

Sl.no.	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	44	76	7.6	92.4	60-95	75-100	85-100	95-100
4	1.18 mm	215	291	29.1	70.9	30-70	55-90	75-100	90-100
5	600 micron	245	536	53.6	46.4	15-34	35-59	60-79	80-100
6	300 micron	201	737	73.7	26.3	5-20	8-30	12-40	15-50
7	150 micron	178	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-07-06-11

Date: 08-01-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	8.1	Uncrushed fine Aggregate Max 3%. Crushed Fine aggregate Max 15%. Mixed Fine aggregate Max 12%. Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : CP-2022-07-06-11 **Date: 08-01-2022**

Project Name : Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.

Agency : Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Customer's Reference : EE(Project)/Ynk.Zone/WO/173/2020-21

Date of Receipt : 06-01-2022

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 07-01-2022

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500	25	3.472	597	712	18.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Lab ID : CP-2022-07-06-11 Date: 06-02-2022

DIMENSION ANALYSIS

SLno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	201	200	
2	399	199	200	
3	399	202	202	
4	401	200	200	
5	400	202	201	
6	403	200	200	
7	401	199	203	
8	400	201	202	
9	400	203	201	
10	400	200	199	
11	404	200	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
12	404	201	200	
13	404	200	203	
14	401	201	199	
15	402	200	202	
16	401	199	202	
17	401	199	202	
18	401	202	202	
19	402	201	203	
20	403	200	203	
Average of 20	**401**	**201**	**201**	

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Lab ID : CP-2022-07-06-11 Date: 06-03-2023

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80448	380.4	4.7	4.7
2	399	199	79611	380.7	4.8	
3	399	202	80717	378.8	4.7	
4	401	200	80126	378.7	4.7	
5	400	202	81005	379.3	4.7	
6	403	200	80604	380.9	4.7	
7	401	199	79847	373.3	4.7	
8	400	201	80310	377.8	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 06-02-2022

Lab ID	:	CP-2022-07-46-11
Project Name	:	Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.
Agency	:	Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/173/2020-21
Date of Receipt	:	02-02-2022
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10) , Block density Annex -C Clause 9.3 and10), Compressive strength Annex -D Clause 9.4 and 10), Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	02-02-2022

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	151	199	12080	22.400	1854.4	1917.1	Not less than 1800Kg/m^3
2	401	148	203	12048	23.650	1963.1		
3	401	149	202	12069	23.339	1933.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2022-07-06-11 Date: 06-02-2022

DIMENSION ANALYSIS

SLno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	149	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	149	200	
3	403	149	200	
4	403	150	201	
5	401	152	199	
6	402	152	202	
7	403	152	200	
8	401	151	203	
9	399	151	202	
10	401	152	199	
11	403	149	200	
12	402	149	200	
13	402	149	202	
14	404	151	203	
15	401	150	202	
16	400	152	200	
17	402	152	199	
18	400	151	203	
19	399	151	200	
20	403	152	199	
Average of 20	**402**	**151**	**201**	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Lab ID : CP-2022-07-06-11 Date: 06-02-2022

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	149	59760	288.7	4.8	4.7
2	400	149	59736	287.3	4.8	
3	403	149	60100	288.0	4.8	
4	403	150	60432	285.8	4.7	
5	401	152	60867	283.1	4.7	
6	402	152	61152	288.0	4.7	
7	403	152	61189	286.0	4.7	
8	401	151	60503	285.6	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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CIVIL Pro Sig. Date BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2022-07-06-11** **Date: 05-02-2022**
Project Name	:	Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.
Agency	:	Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/173/2020-21
Date of Receipt	:	02-02-2022
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-02-2022
Total weight taken	:	1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2022-07-06-11 Date: 05-02-2022

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID	:	CP-2022-07-06-11 **Date: 07/02/2022**
ject Name	:	Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.
ency	:	Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
stomer's Reference	:	EE(Project)/Ynk.Zone/WO/173/2020-21
te of Receipt	:	02-02-2022
stomer ID	:	First Floor Column upto Beam
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	07/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	First Floor Column upto Beam	M20	31/01/2022	07/02/2022	151.34 X 151.28 X 150.29	22895	8.725	421.4	18.4	18.3
	First Floor Column upto Beam	M20	31/01/2022	07/02/2022	149.73 X 150.15 X 150.74	22482	9.003	413.2	18.4	
	First Floor Column upto Beam	M20	31/01/2022	07/02/2022	149.00 X 149.89 X 151.36	22334	8.914	407.5	18.2	

he results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig. Date. BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/02/2022

ab ID	:	CP-2022-07-06-11
roject Name	:	Construction of Additional Floor to Existing Library at Vidyaranyapura Ward No.09 in Byatarayanapura Assembly Constituency.
gency	:	Sri. S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
ustomer's Reference	:	EE(Project)/Ynk.Zone/WO/173/2020-21
ate of Receipt	:	02-02-2022
ustomer ID	:	First Floor Column upto Beam
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
ate of test	:	28/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	First Floor Column upto Beam	M20	31/01/2022	28/02/2022	150.96 X 151.01 X 151.97	22797	9.072	540.6	23.7	23.4
2	First Floor Column upto Beam	M20	31/01/2022	28/02/2022	151.78 X 151.54 X 150.32	23000	8.363	522.8	22.7	
3	First Floor Column upto Beam	M20	31/01/2022	28/02/2022	151.21 X 149.67 X 149.49	22631	8.432	536.8	23.7	

The results obtained are satisfactory as per standard requirements.

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ab ID	:	CP-2022-07-06-11 **Date: 07/02/2022**
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ate of Receipt	:	02-02-2022
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ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 7 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
ate of test	:	07/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	First Floor Column upto Beam	M20	31/01/2022	07/02/2022	150.29 X 151.87 X 151.93	22825	8.377	425.6	18.6	18.3
2	First Floor Column upto Beam	M20	31/01/2022	07/02/2022	150.49 X 149.95 X 151.79	22566	8.665	407.7	18.1	
3	First Floor Column upto Beam	M20	31/01/2022	07/02/2022	150.02 X 149.41 X 149.44	22415	8.726	408.5	18.2	

The results obtained are satisfactory as per standard requirements.

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